



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
31.08.2005 Bulletin 2005/35

(51) Int Cl.7: **H05K 7/10, H01R 13/193**

(43) Date of publication A2:
23.03.2005 Bulletin 2005/12

(21) Application number: **04030331.5**

(22) Date of filing: **28.06.1999**

(84) Designated Contracting States:
DE FR GB

(71) Applicant: **ENPLAS CORPORATION**
Saitama-ken 332-0034 (JP)

(30) Priority: **30.06.1998 JP 19983798**
21.05.1999 JP 14104899
28.05.1999 JP 15019599

(72) Inventor: **Shimada, Hideo Enplas Corporation**
Kawaguchi-shi, Saitama 332-0034 (JP)

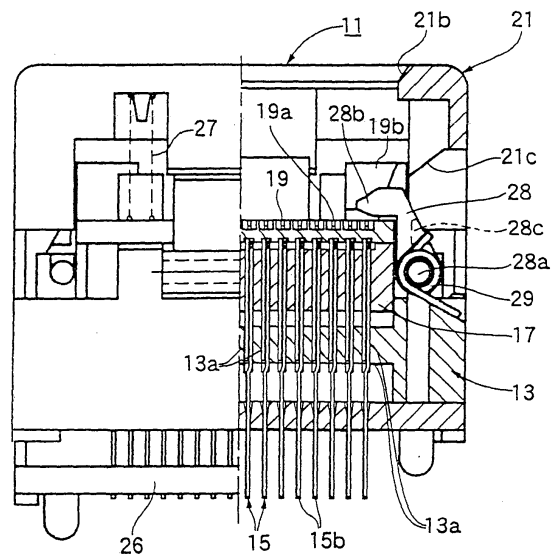
(62) Document number(s) of the earlier application(s) in
 accordance with Art. 76 EPC:
99112361.3 / 0 969 710

(74) Representative: **Klunker . Schmitt-Nilson . Hirsch**
Winzererstrasse 106
80797 München (DE)

(54) **Socket for electrical parts**

(57) A socket for an electrical part comprises a socket body having a mount portion on which an electrical part having terminals is mounted, a number of contact pins to be contacted to or separated from the terminals of the electrical part and a movable plate disposed to the socket body to be movable perpendicularly with respect to the mount portion in a usable state of the socket. Each of the contact pins has a pair of elastic pieces formed, at front end portions thereof, with contact portions which are opened or closed in accordance with the movement of the movable plate thereby to establish an electrical connection between the contact portions and the terminals of the electrical part when the contact portions are closed. The movable plate is provided with cam portions arranged between adjacent contact pins, respectively, and when the movable plate is moved, the elastic pieces are pressed by a pair of cam portions disposed on both the sides of each of the contact pins thereby to open the contact portions.

FIG.2





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	GB 2 286 490 A (FU-YU * HSU) 16 August 1995 (1995-08-16) * the whole document *	1	H05K7/10 H01R13/193
A	US 4 591 230 A (ROLDAN ET AL) 27 May 1986 (1986-05-27) * the whole document *	1	
A	US 5 342 213 A (KOBAYASHI ET AL) 30 August 1994 (1994-08-30) * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01R H05K
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 8 July 2005	Examiner Toussaint, F
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

1
EPO FORM 1503 03/02 (P04/C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 04 03 0331

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

08-07-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2286490	A	16-08-1995	AU 651941 B3	04-08-1994
			CA 2115403 A1	11-08-1995
			FR 2716297 A3	18-08-1995
			US 5454727 A	03-10-1995
			US 5569045 A	29-10-1996

US 4591230	A	27-05-1986	NONE	

US 5342213	A	30-08-1994	JP 3302720 B2	15-07-2002
			JP 5343146 A	24-12-1993

EPO FORM P0489

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82